

Title (en)
WATER-DISPERSIBLE DIRECT THERMAL OR INKJET PRINTABLE MEDIA

Title (de)
WASSERDISPERGIERBARE DIREKTE THERMISCHE ODER TINTENSTRAHLBEDRUCKBARE MEDIEN

Title (fr)
SUPPORT IMPRIMABLE À JET D'ENCRE OU DIRECT THERMIQUE HYDRODISPERSABLE

Publication
EP 4061642 A1 20220928 (EN)

Application
EP 20825324 A 20201120

Priority
• US 201962939418 P 20191122
• US 2020061584 W 20201120

Abstract (en)
[origin: US2021155027A1] Dispersible record materials or media include a water-soluble or water-dispersible paper substrate, a printable layer carried by the substrate, and a base coat between the substrate and the printable layer. The printable layer may be a thermally responsive layer, e.g. containing a leuco dye and an acidic color developer, or an inkjet receptive layer. The binder material used in the base coat, and the base coat itself, are non-water-soluble, but nevertheless tailored in such a way that the record material as a whole is water-dispersible, i.e., it breaks apart under the influence of water with minimal agitation. The binder material of the base coat is preferably a non-resinous binder, a particulate binder, and/or a binder derived from a dispersion, such as latex. Use of such a binder material in a carefully selected concentration, with other elements, provides a base coat that allows for high quality images to be thermally printed at high print speeds on the thermally responsive layer.

IPC 8 full level
B41M 5/41 (2006.01); **B41M 5/42** (2006.01); **B41M 5/44** (2006.01); **B41M 5/50** (2006.01)

CPC (source: EP KR US)
B41M 5/41 (2013.01 - EP KR US); **B41M 5/42** (2013.01 - EP KR); **B41M 5/426** (2013.01 - EP KR); **B41M 5/44** (2013.01 - EP KR US); **B41M 5/502** (2013.01 - KR US); **B41M 5/506** (2013.01 - EP KR US); **B41M 5/508** (2013.01 - EP KR US); **B41M 5/52** (2013.01 - KR US); **B41M 2205/38** (2013.01 - EP KR)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
US 11376879 B2 20220705; US 2021155027 A1 20210527; AU 2020386970 A1 20220623; CA 3158997 A1 20210527; CA 3158997 C 20240130; EP 4061642 A1 20220928; JP 2023502524 A 20230124; KR 20220100045 A 20220714; WO 2021102312 A1 20210527

DOCDB simple family (application)
US 202017100349 A 20201120; AU 2020386970 A 20201120; CA 3158997 A 20201120; EP 20825324 A 20201120; JP 2022530192 A 20201120; KR 20227020838 A 20201120; US 2020061584 W 20201120